

I certify to the best of my knowledge and belief that the documents listed in the attached corrected index comprise the administrative record for judicial review of the EPA’s final action in the notice entitled “Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur, and Particulate Matter” that was published at 89 FR 105692 (December 27, 2024) and is the subject of the above-captioned petition for review. The index lists documents from the public docket ID Nos. EPA-HQ-OAR-2014-0128 and EPA-HQ-

ORD-2013-0620. This version of the index corrects formatting that had cut off portions of titles in the previously filed version. No substantive changes have been made.

DATED this 2nd day of July, 2025.

ERIKA SASSER

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Erika Sasser, Director
Health and Environmental Impacts Division
Office of Air Quality Planning and Standards
U.S. Environmental Protection Agency

EPA-HQ-OAR-2014-0128 Docket			
Document Type	Document ID	Title	Date Received to Docket
NOTICES	EPA-HQ-OAR-2014-0128-0001	Meetings: Secondary National Ambient Air Quality Standards for Oxides of Nitrogen and Sulfur; Workshop	02/13/2014
	EPA-HQ-OAR-2014-0128-0002	Workshop To Review Initial Draft Materials for the Nitrogen Oxides (NOX) and Sulfur Oxides (SOX) Integrated Science Assessment (ISA) for Ecological Effects	08/12/2015
	EPA-HQ-OAR-2014-0128-0003	Draft Integrated Review Plans: Secondary National Ambient Air Quality Standard for Oxides of Nitrogen and Oxides of Sulfur	11/09/2015
	EPA-HQ-OAR-2014-0128-0009	First External Review Draft Integrated Science Assessment for Oxides of Nitrogen, Oxides of Sulfur, and Particulate Matter-Ecological Criteria	03/30/2017
	EPA-HQ-OAR-2014-0128-0015	External Review Draft Integrated Science Assessments: Oxides of Nitrogen, Oxides of Sulfur, and Particulate Matter-Ecological Criteria	06/26/2018
	EPA-HQ-OAR-2014-0128-0019	Risk and Exposure Assessment Plans: Secondary National Ambient Air Quality Standard for Oxides of Nitrogen, Oxides of Sulfur and Particulate Matter; Release	08/22/2018
	EPA-HQ-OAR-2014-0128-0029	Final Integrated Science Assessment for Oxides of Nitrogen, Oxides of Sulfur, and Particulate Matter--Ecological Criteria	10/19/2020
	EPA-HQ-OAR-2014-0128-0030	Policy Assessment for the Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur and Particulate Matter	05/31/2023
	EPA-HQ-OAR-2014-0128-0035	Release of Policy Assessment for the Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur and Particulate Matter	01/12/2024
PROPOSED RULES	EPA-HQ-OAR-2014-0128-0038	Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur, and Particulate Matter	4/15/2024
	EPA-HQ-OAR-2014-0128-0431	Hearings, Meetings, Proceedings, etc.: Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur, and Particulate Matter	4/15/2024
FINAL RULES	EPA-HQ-OAR-2014-0128-0497	Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur, and Particulate Matter	12/27/2024
SUPPORTING & RELATED MATERIALS	EPA-HQ-OAR-2014-0128-0036	Incorporation by Reference NO x SOx PM Secondary NAAQS Review - Integrated Science Assessment EPA-HQ-ORD-2013-0620	07/11/2023
	EPA-HQ-OAR-2014-0128-0039	Secondary NOx SOx PM NAAQS Review Technical Memorandum 03-08-2024	03/27/2024
	EPA-HQ-OAR-2014-0128-0040	Ambient Air SO2 Monitoring Network Review and Background (January 2024)	03/27/2024
	EPA-HQ-OAR-2014-0128-0041	Technical Analyses to Support Alternative Demonstration Approach for Proposed Secondary SO2 NAAQS under NSR/PSD Program. January 31, 2024	03/27/2024
	EPA-HQ-OAR-2014-0128-0042	Robinson, RB, Barnett, TW, Harwell, GR, Moore, SE, Kulp, M and Schwartz, JS (2008). pH and acid anion time trends in different elevation ranges in the Great Smoky Mountains National Park. J Environ Eng 134(9): 800-808.	03/27/2024

	EPA-HQ-OAR-2014-0128-0043	Sullivan, TJ, Cosby, BJ, Jackson, WA, Snyder, K and Herlihy, AT (2011). Acidification and prognosis for future recovery of acid-sensitive streams in the Southern Blue Ridge province. Water Air Soil Pollut 219: 11-16	03/27/2024
	EPA-HQ-OAR-2014-0128-0044	Lebo, ME, Paerl, HW and Peierls, BL. (2012). Evaluation of progress in achieving TMDL mandated nitrogen reductions in the Neuse River Basin, North Carolina. Environ Manage 49: 253-266	03/27/2024
	EPA-HQ-OAR-2014-0128-0045	Officer, CB, Biggs, RB, Taft, JL, Cronin, LE, Tyler, MA and Boynton, WR (1984). Chesapeake Bay anoxia: Origin, development, and significance. Science 223: 22-27	03/27/2024
	EPA-HQ-OAR-2014-0128-0046	U.S. EPA (2016). Integrated Review Plan for the National Ambient Air Quality Standards for Particulate Matter. Office of Air Quality Planning and Standards, Research Triangle Park, NC. EPA-452/R-16-005. December 2016	03/27/2024
	EPA-HQ-OAR-2014-0128-0047	U.S. EPA (2020). Policy Assessment for the Review of the National Ambient Air Quality Standards for Particulate Matter. Office of Air Quality Planning and Standards, Research Triangle Park, NC. EPA-452/R-20-002. January 2020	03/27/2024
	EPA-HQ-OAR-2014-0128-0048	U.S. EPA (2020). Policy Assessment for the Review of the Ozone National Ambient Air Quality Standards. Office of Air Quality Planning and Standards, Research Triangle Park, NC. EPA-452/R-20-001. May 2020.	03/27/2024
	EPA-HQ-OAR-2014-0128-0049	U.S. EPA (2019). Integrated Science Assessment (ISA) for Particulate Matter (Final Report). Office of Air Quality Planning and Standards, Research Triangle Park, NC. EPA/600/R-19/188. December 2019	03/27/2024
	EPA-HQ-OAR-2014-0128-0050	Sasser. 2023. Memorandum to Aaron Yeow, EPA DFO for CASAC. January 16, 2024. Transmittal of Policy Assessment for the Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur and Particulate Matter and Response to CASAC Comments on the External Review Draft of this Document	03/27/2024
	EPA-HQ-OAR-2014-0128-0051	U.S. EPA (2017). Integrated Review Plan for the Secondary NAAQS for Oxides of Nitrogen and Oxides of Sulfur and Particulate Matter – Final. Office of Air Quality Planning and Standards, Research Triangle Park, NC. EPA-452/R-17-002. January 2017	03/27/2024
	EPA-HQ-OAR-2014-0128-0052	Sasser. 2023. Memorandum to Aaron Yeow, EPA DFO for CASAC. July 24, 2023. Correction to Errors in Six Figures of Chapter 6 of the Policy Assessment for the Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur and Particulate Matter, External Review Draft	03/27/2024
	EPA-HQ-OAR-2014-0128-0053	U.S. EPA (2015). Draft Integrated Review Plan for the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen and Oxides of Sulfur. Office of Air Quality Planning and Standards, Research Triangle Park, NC. October 2015	03/27/2024
	EPA-HQ-OAR-2014-0128-0054	U.S. EPA (2018). Review of the Secondary Standards for Ecological Effects of Oxides of Nitrogen, Oxides of Sulfur, and Particulate Matter: Risk and Exposure Assessment Planning Document. Office of Air Quality Planning and Standards, Research Triangle Park, NC. EPA-452/D-18-001. August 2018	03/27/2024

	EPA-HQ-OAR-2014-0128-0055	Sasser. 2023 Memorandum to Aaron Yeow, EPA DFO for CASAC. July 27, 2023. Correction to Errors in Six Correlation Coefficients in Chapter 6 of the Policy Assessment for the Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur and Particulate Matter, External Review Draft	03/27/2024
	EPA-HQ-OAR-2014-0128-0056	U.S. EPA (2023). Policy Assessment for the Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur and Particulate Matter, External Review Draft. Office of Air Quality Planning and Standards, Research Triangle Park, NC. EPA-452/D-23-002. May 2023.	03/27/2024
	EPA-HQ-OAR-2014-0128-0057	U.S. EPA (2024). Policy Assessment for the Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur and Particulate Matter. Office of Air Quality Planning and Standards, Research Triangle Park, NC. January 2024.	03/27/2024
	EPA-HQ-OAR-2014-0128-0058	CASAC Review of the EPA's Draft Integrated Review Plan for the National Ambient Air Quality Standards for Oxides of Nitrogen and Oxides of Sulfur. April 1, 2016. EPA-CASAC-16-001	03/27/2024
	EPA-HQ-OAR-2014-0128-0059	Letter re: Consultation on the EPA's Review of the Secondary Standards for Ecological Effects of Oxides of Nitrogen, Oxides of Sulfur, and Particulate Matter: Risk and Exposure Assessment Planning Document (August - 2018). May 5, 2020. EPA-CASAC-20-005.	03/27/2024
	EPA-HQ-OAR-2014-0128-0060	CASAC Review of the EPA's Policy Assessment for the Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur and Particulate Matter	03/27/2024
	EPA-HQ-OAR-2014-0128-0061	Ashby, JA, Bowden, WD and Murdoch, PS (1998). Controls on denitrification in riparian soils in headwater catchments of a hardwood forest in the Catskill Mountains, USA. Soil Bio Biochem 30(7): 853-864.	03/27/2024
	EPA-HQ-OAR-2014-0128-0062	Appel et al 2011 A multi-resolution assessment of the Community Multiscale Air Quality (CMAQ) model v4.7 wet deposition estimates for 2002–2006. Geosci Model Dev 4(2): 357-371.	03/27/2024
	EPA-HQ-OAR-2014-0128-0063	Aber, JD, Goodale, CL, Ollinger, SV, Smith, ML, Magill, AH, Martin, ME, Hall, RA and Stoddard, JL (2003). Is nitrogen deposition altering the nitrogen status of northeastern forests? Bioscience 53: 375-389.	03/27/2024
	EPA-HQ-OAR-2014-0128-0064	Andr��n, CM and Rydin, E (2012). Toxicity of inorganic aluminium at spring snowmelt—In stream bioassays with brown trout (Salmo trutta L.). Sci Total Environ 437: 422-432.	03/27/2024
	EPA-HQ-OAR-2014-0128-0065	Allen et al 2009 The Mojave Desert: Ecosystem Processes and Sustainability: Impacts of atmospheric nitrogen deposition on vegetation and soils at Joshua Tree National Park. University of Nevada Press. Las Vegas, NV.	03/27/2024
	EPA-HQ-OAR-2014-0128-0066	Adams, C, et al, (2019). Satellite-derived emissions of carbon monoxide, ammonia, and nitrogen dioxide from the 2016 Horse River wildfire in Fort McMurray area. Atmos Chem Phys 19: 2577-2599	03/27/2024
	EPA-HQ-OAR-2014-0128-0067	Anderson, JR, (1976). A Land Use and Land Cover Classification System for Use with Remote Sensor Data. Geological Survey Professional Paper 964. US DOI, US GS	03/27/2024

	EPA-HQ-OAR-2014-0128-0068	KW Appel (2021). The Community Multiscale Air Quality (CMAQ) model versions 5.3 and 5.3. 1: system updates and evaluation. Geosci Model Dev 14(5): 2867-2897.	03/27/2024
	EPA-HQ-OAR-2014-0128-0069	Baldigo and Murdoch 1997 Baldigo, BP and Murdoch, PS. (1997). Effect of stream acidification and inorganic aluminum on mortality of brook trout (<i>Salvelinus fontinalis</i>) in the Catskill Mountains, New York. Can J Fish Aquat Sci 54: 603-615	03/27/2024
	EPA-HQ-OAR-2014-0128-0070	Boonpragob, K and Nash, T, III (1991). Physiological responses of the lichen <i>Ramalina menziesii</i> to the Los Angeles urban environment. Environ Exp Bot 31: 229-238	03/27/2024
	EPA-HQ-OAR-2014-0128-0071	Baker, JP and Schofield, CL (1982). Aluminum toxicity to fish in acidic waters. Water Air Soil Pollut 18: 289-309	03/27/2024
	EPA-HQ-OAR-2014-0128-0072	Baker, JP and Schofield, CL (1985). Acid Deposition: Environmental, Economic, and Policy Issues: Acidification impacts on fish populations: A review. Springer, New York, NY.	03/27/2024
	EPA-HQ-OAR-2014-0128-0073	Bedison, JE and McNeil, BE (2009). Is the growth of temperate forest trees enhanced along an ambient nitrogen deposition gradient? Ecology 90: 1736-1742	03/27/2024
	EPA-HQ-OAR-2014-0128-0074	Baldigo et al 2009 Impacts of acidification on macroinvertebrate communities in streams of the western Adirondack Mountains, New York, USA. Ecol Indicators 9(2): 226-239	03/27/2024
	EPA-HQ-OAR-2014-0128-0075	Baron, JS, Ojima, DS, Holland, EA and Parton, WJ (1994). Analysis of nitrogen saturation potential in Rocky Mountain tundra and forest: implications for aquatic systems. Biogeochemistry 27, 61-82	03/27/2024
	EPA-HQ-OAR-2014-0128-0076	Bethers, S, Day, ME, Wiersma, GB, Fernandez, IJ and Elvir, JA (2009). Effects of chronically elevated nitrogen and sulfur deposition on sugar maple saplings: Nutrition, growth and physiology. For Ecol Manage 258: 895-902	03/27/2024
	EPA-HQ-OAR-2014-0128-0077	Baker, JP and Christensen, SW (1991). Acidic Deposition and Aquatic Ecosystems: Regional Case Studies: Effects of acidification on biological communities in aquatic ecosystems. Springer-Verlag. New York, NY	03/27/2024
	EPA-HQ-OAR-2014-0128-0078	Baker et al 1991, Baker, LA, Herlihy, AT, Kaufmann, PR, and Eilers, JM (1991). Acidic lakes and streams in the United States: the role of acidic deposition. Science 252: 1151-1154.	03/27/2024
	EPA-HQ-OAR-2014-0128-0079	Bobbink, R, Ashmore, M, Braun, S, Flückiger, W and Van den Wyngaert, IJJ (2003). Empirical Critical Loads for Nitrogen: Empirical nitrogen critical loads for natural and semi-natural ecosystems: 2002 update. Swiss Agency for Environment, Forest and Landscape SAEFL. Berne, Switzerland	03/27/2024
	EPA-HQ-OAR-2014-0128-0080	Bowman, WD, Nemergut, DR, McKnight, DM, Miller, MP and Williams, MW (2014). A slide down a slippery slope - Alpine ecosystem responses to nitrogen deposition. Plant Ecol Divers 8: 727-738	03/27/2024
	EPA-HQ-OAR-2014-0128-0081	Bergström, AK (2010). The use of TN:TP and DIN:TP ratios as indicators for phytoplankton nutrient limitation in oligotrophic lakes affected by N deposition. Aquat Sci 72: 277-281	03/27/2024
	EPA-HQ-OAR-2014-0128-0082	Bowman, WD, Gartner, JR, Holland, K and Wiedermann, MM (2006). Nitrogen critical loads for alpine vegetation and terrestrial ecosystem response: Are we there yet? Ecol Appl 16: 1183-1193	03/27/2024

EPA-HQ-OAR-2014-0128-0083	Bowman, WD, Murgel, J, Blett, T and Porter, E (2012). Nitrogen critical loads for alpine vegetation and soils in Rocky Mountain National Park. J Environ Manage 103: 165-171.	03/27/2024
EPA-HQ-OAR-2014-0128-0084	Banzhaf, S, Burtraw, D, Evans, D and Krupnick, A (2006). Valuation of Natural Resource Improvements in the Adirondacks. Land Econ 82: 445-464.	03/27/2024
EPA-HQ-OAR-2014-0128-0085	Bechteld, WA and Patterson, PL (2005). The enhanced forest inventory and analysis program - national sampling design and estimation procedures. General Technical Report SRS-80. United States Department of Agriculture, Us Forest Service, Southern Research Station.	03/27/2024
EPA-HQ-OAR-2014-0128-0086	Bash, JO, Cooter, EJ, Dennis, RL, Walker, JT and Pleim, JE (2013). Evaluation of a regional air-quality model with bidirectional NH 3 exchange coupled to an agroecosystem model. Biogeosciences 10(3): 1635-1645.	03/27/2024
EPA-HQ-OAR-2014-0128-0087	Boonpragob, K, Nash, T, III and Fox, CA (1989). Seasonal deposition patterns of acidic ions and ammonium to the lichen Ramalina menziesii tayl. in Southern California. Environ Exp Bot 29: 187-197.	03/27/2024
EPA-HQ-OAR-2014-0128-0088	Baron, JS, Driscoll, CT, Stoddard, JL and Richer, EE (2011). Empirical critical loads of atmospheric nitrogen deposition for nutrient enrichment and acidification of sensitive US lakes. Bioscience 61: 602-613.	03/27/2024
EPA-HQ-OAR-2014-0128-0089	Beier, C, Blanck, K, Bredemeier, M, Lamersdorf, N, Rasmussen, L and Xu, YJ (1998). Field-scale 'clean rain' treatments to two Norway spruce stands within the EXMAN project: Effects on soil solution chemistry, foliar nutrition and tree growth. For Ecol Manage 101: 111-123.	03/27/2024
EPA-HQ-OAR-2014-0128-0090	Lichens as Bioindicators of Air Quality: Identification of sensitive species. General Technical Report RM-224. United States Department of Agriculture, US Forest Service, Rocky Mountain Forest and Range Experimental Station.	03/27/2024
EPA-HQ-OAR-2014-0128-0091	Vegetation and soil biota response to experimentally-changed nitrogen inputs in coniferous forest ecosystems of the NITREX project. For Ecol Manage 101: 65-79.	03/27/2024
EPA-HQ-OAR-2014-0128-0092	Banks, A, Kooperman, GJ and Xu, Y (2022). Meteorological influences on anthropogenic PM2.5 in future climates: Species level analysis in the Community Earth System Model v2. Earth's Future 10: e2021EF002298.	03/27/2024
EPA-HQ-OAR-2014-0128-0093	Baker, JP, Gherini, SA, Christensen, SW, Driscoll, CT, Gallagher, J, Munson, RK, Newton, RM, Reckhow, KH and Schofield, CL (1990). Adirondack lakes survey: An interpretive analysis of fish communities and water chemistry, 1984-1987. Adirondack Lakes Survey Corporation, Ray Brook, NY.	03/27/2024
EPA-HQ-OAR-2014-0128-0094	CASAC Review of the EPA's Draft Integrated Review Plan for the National Ambient Air Quality Standards for Oxides of Nitrogen and Oxides of Sulfur. April 1, 2016. EPA-CASAC-16-001.	04/02/2024
EPA-HQ-OAR-2014-0128-0095	Letter from Louis Cox, Chair, Clean Air Scientific Advisory Committee, Ronald Kendall, Chair, Secondary NAAQS Review Panel for Oxides of Nitrogen and Sulfur and Ivan Fernandez, Immediate Past Chair, Secondary NAAQS Review Panel for Oxides of Nitrogen and Sulfur to Administrator Andrew R. Wheeler	04/02/2024

	EPA-HQ-OAR-2014-0128-0096	CASAC Review of the EPA's Policy Assessment for the Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur and Particulate Matter (External Review Draft – May 2023). September 27, 2023. EPA-CASAC-23-005	04/02/2024
	EPA-HQ-OAR-2014-0128-0097	Boyer, EW, Goodale, CL, Jaworski, NA and Howarth, RW (2002). Anthropogenic nitrogen sources and relationships to riverine nitrogen export in the northeastern USA. Biogeochemistry 57: 137-169.	04/02/2024
	EPA-HQ-OAR-2014-0128-0098	Brahney, J, Mahowald, N, Ward, DS, Ballantyne, AP and Neff, JC (2015). Is atmospheric phosphorus pollution altering global alpine Lake stoichiometry? Global Biogeochem Cycles 29: 1369-1383.	04/02/2024
	EPA-HQ-OAR-2014-0128-0099	Buckler, DR, Mehrle, PM, Cleveland, L and Dwyer, FJ (1987). Influence of pH on the toxicity of aluminum and other inorganic contaminants to East Coast striped bass. Water, Air, Soil Pollut 35(1): 97-106.	04/02/2024
	EPA-HQ-OAR-2014-0128-0100	Brown, CA and Ozretich, RJ (2009). Coupling between the coastal ocean and Yaquina Bay, Oregon: Importance of oceanic inputs relative to other nitrogen sources. Estuaries Coasts 32: 219-237.	04/02/2024
	EPA-HQ-OAR-2014-0128-0101	Bulger, AJ, Cosby, BJ and Webb, JR (2000). Current, reconstructed past, and projected future status of brook trout (<i>Salvelinus fontinalis</i>) streams in Virginia. Can J Fish Aquat Sci 57(7): 1515-1523.	04/02/2024
	EPA-HQ-OAR-2014-0128-0102	Bulger, AJ, Cosby, BJ, Dolloff, CA, Eshleman, KN, Webb, JR and Galloway, JN (1999). SNP:FISH. Shenandoah National Park: Fish in sensitive habitats. Project Final Report-Volume 1-4. Charlottesville, VA, University of Virginia.	04/02/2024
	EPA-HQ-OAR-2014-0128-0103	Butler et al K (2015). Atmospheric ammonia measurements at low concentration sites in the northeastern USA: implications for total nitrogen deposition and comparison with CMAQ estimates. Biogeochemistry 122(2-3): 191-210.	04/02/2024
	EPA-HQ-OAR-2014-0128-0104	Bytnerowicz, A and Fenn, ME (1996). Nitrogen deposition in California forests: A review. Environ Pollut 92: 127-146.	04/02/2024
	EPA-HQ-OAR-2014-0128-0105	Data Files Associated with HYSPLIT Modeling Analyses Unprocessed Outputs Described in Appendix 6A of the 2024 Policy Assessment for the Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur, and Particulate Matter	04/02/2024
	EPA-HQ-OAR-2014-0128-0106	README - Subset of TDep Data Files described in Appendix 6A of the 2024 Policy Assessment for the Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur, and Particulate Matter	04/02/2024
	EPA-HQ-OAR-2014-0128-0107	Campbell, JL, Hornbeck, JW, McDowell, WH, Buso, DC, Shanley, JB and Likens, GE (2000). Dissolved organic nitrogen budgets for upland, forested ecosystems in New England. Biogeochemistry 49: 123-142.	04/02/2024
	EPA-HQ-OAR-2014-0128-0108	Caffrey, JM, Murrell, MC, Wigand, C and McKinney, R (2007). Effect of nutrient loading on biogeochemical and microbial processes in a New England salt marsh. Biogeochemistry 82: 251-264.	04/02/2024

	EPA-HQ-OAR-2014-0128-0109	Cleavitt, NL, Hinds, JW, Poirot, RL, Geiser, LH, Dibble, AC, Leon, B, Perron, R and Pardo, LH (2015). Epiphytic macrolichen communities correspond to patterns of sulfur and nitrogen deposition in the northeastern United States. <i>Bryologist</i> 118: 304-324.	04/02/2024
	EPA-HQ-OAR-2014-0128-0110	Cox, RD, Preston, KL, Johnson, RF, Minnich, RA and Allen, EB (2014). Influence of landscape scale variables on vegetation conversion to exotic annual grassland in southern California, USA. <i>Glob Ecol Conserv</i> 2: 190-203.	04/02/2024
	EPA-HQ-OAR-2014-0128-0111	Costanza, R, De Groot, R, Braat, L, Kubiszewski, I, Fioramonti, L, Sutton, P, Farber, S and Grasso, M (2017). Twenty years of ecosystem services: How far have we come and how far do we still need to go? <i>Ecosyst Serv</i> 28: 1-16.	04/02/2024
	EPA-HQ-OAR-2014-0128-0112	Clark, CM and Tilman, D (2008). Loss of plant species after chronic low-level nitrogen deposition to prairie grasslands. <i>Nature</i> 451: 712-715.	04/02/2024
	EPA-HQ-OAR-2014-0128-0113	Cleavitt, NL, Ewing, HA, Weathers, KC and Lindsey, AM (2011). Acidic atmospheric deposition interacts with tree type and impacts the cryptogamic epiphytes in Acadia National Park, Maine, USA. <i>Bryologist</i> 114: 570-582.	04/02/2024
	EPA-HQ-OAR-2014-0128-0114	Chen, ZL, Song, W, Hu, CC, Liu, XJ, Chen, GY, Walters, WW, Michalski, G, Liu, CQ, Fowler, D and Liu, XY (2022). Significant contributions of combustion-related sources to ammonia emissions. <i>Nat Commun</i> 13: 7710.	04/02/2024
	EPA-HQ-OAR-2014-0128-0115	Collins et al (2017). Press-pulse interactions: effects of warming, N deposition, altered winter precipitation, and fire on desert grassland community structure and dynamics. <i>Global Change Biol</i> 23: 1095-1108.	04/02/2024
	EPA-HQ-OAR-2014-0128-0116	Cronan, CS and Grigal, DF (1995). Use of Calcium/Aluminum Ratios as Indicators of Stress in Forest Ecosystems. <i>J Environ Qual</i> 24: 209-226.	04/02/2024
	EPA-HQ-OAR-2014-0128-0117	Concilio, AL and Loik, ME (2013). Elevated nitrogen effects on <i>Bromus tectorum</i> dominance and native plant diversity in an arid montane ecosystem. <i>Appl Veg Sci</i> 16: 598-609.	04/02/2024
	EPA-HQ-OAR-2014-0128-0118	Cosby, BJ, Hornberger, GM, Galloway, JN and Wright, RF (1985). Modeling the Effects of Acid Deposition: Assessment of a Lumped Parameter Model of Soil Water and Streamwater Chemistry. <i>Water Resour. Res.</i> 21(1): 51-63.	04/02/2024
	EPA-HQ-OAR-2014-0128-0119	Clow, DW, Roop, HA, Nanus, L, Fenn, ME and Sexstone, GA (2015). Spatial patterns of atmospheric deposition of nitrogen and sulfur using ion-exchange resin collectors in Rocky Mountain National Park, USA. <i>Atmos Environ</i> 101: 149-157.	04/02/2024
	EPA-HQ-OAR-2014-0128-0120	Cosby et al 2006 Acidic Deposition Impacts on Natural Resources in Shenandoah National Park. Technical Report NPS/NER/NRTR - 2006-066. United States Department of the Interior, National Park Service, Northeast Region.	04/02/2024
	EPA-HQ-OAR-2014-0128-0121	Cole, JJ and Prairie, YT (2010). Biogeochemistry of Inland Waters: Dissolved CO ₂ . Academic Press. San Diego, CA.	04/02/2024
	EPA-HQ-OAR-2014-0128-0122	Dupont, J, Clair, TA, Gagnon, C, Jeffries, DS, Kahl, JS, Nelson, SJ and Peckenhams, JM (2005). Estimation of Critical Loads of Acidity for Lakes in Northeastern United States and Eastern Canada. <i>Environ Monit Assess</i> 109(1): 275-291.	04/02/2024

	EPA-HQ-OAR-2014-0128-0123	Dise, NB, Rothwell, JJ, Gauci, V, van Der Salm, C and de Vries, W (2009). Predicting dissolved inorganic nitrogen leaching in European forests using two independent databases. <i>Sci Total Environ</i> 407(5): 1798-1808.	04/02/2024
	EPA-HQ-OAR-2014-0128-0124	Davis et al 2015 Effects of Increasing Nitrogen and Phosphorus Concentrations on Phytoplankton Community Growth and Toxicity During Planktothrix Blooms in Sandusky Bay, Lake Erie. <i>Environ Sci Technol</i> 49: 7197-7207.	04/02/2024
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EPA-HQ-OAR-2014-0128-0526	Miscellaneous data files for presentations in Additional Technical Analyses of Air Quality and Deposition Estimates	11/21/2024
EPA-HQ-OAR-2014-0128-0527	TDep v2021 01 File Information -SO2NO2PM - Additional TDep version referenced in the PA, used to calculate the PA estimate of change in the CONUS average N deposition between 2000-2002 and 2018-2020 which was based on the TDep version available in 2022 (v2021.01)	11/21/2024

	EPA-HQ-OAR-2014-0128-0528	TDep v2023_01 File Information -SO2NO2PM - Subset of TDep Data Files described in the Additional Technical Analyses of Air Quality and Deposition Estimates	11/21/2024
	EPA-HQ-OAR-2014-0128-0529	Response to Comments Document on the 2024 Proposed Action re: Secondary National Ambient Air Quality Standards for Oxides of Nitrogen, Oxides of Sulfur and Particulate Matter	12/05/2024
	EPA-HQ-OAR-2014-0128-0530	Memorandum to the Docket - Endangered Species Act No Effect Finding for Final Rulemaking on Secondary NAAQS for SO2, NO2, and PM	12/05/2024
PUBLIC SUBMISSIONS	EPA-HQ-OAR-2014-0128-0004	Comment submitted by Carol McCoy, Chief, Air Resources Division, United States Department of the Interior	12/22/2015
	EPA-HQ-OAR-2014-0128-0005	Comment submitted by Giedrius Ambrozaitis, Director, Environmental Affairs, Alliance of Automobile Manufacturers	12/29/2015
	EPA-HQ-OAR-2014-0128-0006	Comment submitted by Brett Hartl, Endangered Species Policy Director, Center for Biological Diversity	12/30/2015
	EPA-HQ-OAR-2014-0128-0007	Comment submitted by The Adirondack Council, Appalachian Mountain Club, Environmental Defense Fund and National Parks Conservation Association	12/30/2015
	EPA-HQ-OAR-2014-0128-0008	Comment submitted by American Petroleum Institute (API) and Utility Air Regulatory Group (UARG)	12/30/2015
	EPA-HQ-OAR-2014-0128-0010	Anonymous public comment	05/24/2017
	EPA-HQ-OAR-2014-0128-0011	Comment submitted by Lucinda Minton Langworthy and Aaron M. Flynn, Counsel, Hunton & Williams, LLP on behalf of the Utility Air Regulatory Group	05/24/2017
	EPA-HQ-OAR-2014-0128-0012	Comment submitted by Kurt E. Blase, Counsel, Coarse Particulate Matter Coalition	05/24/2017
	EPA-HQ-OAR-2014-0128-0013	Comment submitted by Georgia Murray, Staff Scientist, Appalachian Mountain Club et al.	05/24/2017
	EPA-HQ-OAR-2014-0128-0014	Comment submitted by Wayne Dupuis, Environmental Program Manager, Fond du Lac Band of Lake Superior Chippewa	05/31/2017
	EPA-HQ-OAR-2014-0128-0016	Anonymous public comment	07/01/2018
	EPA-HQ-OAR-2014-0128-0017	Anonymous public comment	07/14/2018
	EPA-HQ-OAR-2014-0128-0018	Anonymous public comment	08/11/2018
	EPA-HQ-OAR-2014-0128-0020	Comment submitted by W. Kaplan	08/22/2018
	EPA-HQ-OAR-2014-0128-0021	Anonymous public comment	08/29/2018
	EPA-HQ-OAR-2014-0128-0022	Anonymous public comment	09/03/2018
	EPA-HQ-OAR-2014-0128-0023	Comment submitted by Aaron M. Flynn, Hunton Andrews Kurth LLP, on behalf of Utility Air Regulatory Group (UARG)	09/04/2018
	EPA-HQ-OAR-2014-0128-0024	Comment submitted by Robert Chapman, Vice President, Energy and Environment, Electric Power Research Institute (EPRI)	09/01/2018
	EPA-HQ-OAR-2014-0128-0025	Comment submitted by Ted Steichen, Senior Policy Advisor, Regulatory and Scientific Affairs, American Petroleum Institute (API)	09/04/2018
	EPA-HQ-OAR-2014-0128-0026	Anonymous public comment	09/08/2018
	EPA-HQ-OAR-2014-0128-0027	Anonymous public comment	09/22/2018
	EPA-HQ-OAR-2014-0128-0028	Anonymous public comment	10/22/2018
	EPA-HQ-OAR-2014-0128-0031	Comment submitted by Center for Biological Diversity	07/25/2023

	EPA-HQ-OAR-2014-0128-0032	Comment submitted by Electric Power Research Institute, Inc. (EPRI)	07/28/2023
	EPA-HQ-OAR-2014-0128-0033	Comment submitted by The Fertilizer Institute (TFI)	07/31/2023
	EPA-HQ-OAR-2014-0128-0034	Comment submitted by Center for Biological Diversity	07/25/2023
	EPA-HQ-OAR-2014-0128-0037	Comment submitted by American Coke and Coal Chemicals Institute et al.	01/29/2024
	EPA-HQ-OAR-2014-0128-0432	Comment submitted by Nicki Zimmerman	04/17/2024
	EPA-HQ-OAR-2014-0128-0434	Anonymous public comment	05/01/2024
	EPA-HQ-OAR-2014-0128-0435	Comment submitted by Kristen Webb	05/08/2024
	EPA-HQ-OAR-2014-0128-0436	Comment submitted by Grant Matthews	05/16/2024
	EPA-HQ-OAR-2014-0128-0437	Comment submitted by Jeff Ball	05/30/2024
	EPA-HQ-OAR-2014-0128-0438	Comment submitted by Air Pollution Control Program, Missouri Department of Natural Resources	06/07/2024
	EPA-HQ-OAR-2014-0128-0439	Comment submitted by Ohio Environmental Protection Agency	06/05/2024
	EPA-HQ-OAR-2014-0128-0440	Comment submitted by Richard Spotts	06/07/2024
	EPA-HQ-OAR-2014-0128-0441	Comment submitted by Gina Marzano	06/12/2024
	EPA-HQ-OAR-2014-0128-0442	Comment submitted by Tracy Ann Strickland	06/12/2024
	EPA-HQ-OAR-2014-0128-0443	Comment submitted by Electric Power Research Institute (EPRI)	06/14/2024
	EPA-HQ-OAR-2014-0128-0444	Comment submitted by Steel Manufacturers Association (SMA)	06/14/2024
	EPA-HQ-OAR-2014-0128-0445	Comment submitted by North American Insulation Manufacturers Association (NAIMA)	06/14/2024
	EPA-HQ-OAR-2014-0128-0446	Comment submitted by Institute for Policy Integrity at New York University School of Law	06/14/2024
	EPA-HQ-OAR-2014-0128-0447	Comment submitted by National Park Service (NPS)	06/14/2024
	EPA-HQ-OAR-2014-0128-0448	Comment submitted by Texas Commission on Environmental Quality (TCEQ)	06/14/2024
	EPA-HQ-OAR-2014-0128-0449	Comment submitted by Power Generators Air Coalition (PGen)	06/14/2024
	EPA-HQ-OAR-2014-0128-0450	Comment submitted by The Fertilizer Institute (TFI)	06/14/2024
	EPA-HQ-OAR-2014-0128-0451	Comment submitted by Louisiana Chemical Association (LCA)	06/14/2024
	EPA-HQ-OAR-2014-0128-0452	Comment submitted by Aluminum Association et al.	06/14/2024
	EPA-HQ-OAR-2014-0128-0453	Comment submitted by Taofik Oladipo	06/14/2024
	EPA-HQ-OAR-2014-0128-0454	Comment submitted by Coarse Particulate Matter Coalition	06/14/2024
	EPA-HQ-OAR-2014-0128-0455	Comment submitted by Wyoming Department of Environmental Quality, Air Quality Division (WDEQ/AQD)	06/14/2024
	EPA-HQ-OAR-2014-0128-0456	Comment submitted by National Wildlife Federation (NWF)	06/14/2024
	EPA-HQ-OAR-2014-0128-0458	Comment submitted by Natalie Boydstun	06/07/2024
	EPA-HQ-OAR-2014-0128-0459	Comment submitted by Susan Michaud	06/07/2024
	EPA-HQ-OAR-2014-0128-0460	Comment submitted by Jim Wells	06/07/2024
	EPA-HQ-OAR-2014-0128-0461	Comment submitted by Babs Alvernaz	06/07/2024
	EPA-HQ-OAR-2014-0128-0462	Comment submitted by Wade Tregaskis	06/07/2024
	EPA-HQ-OAR-2014-0128-0463	Comment submitted by Amy Anderson	06/08/2024
	EPA-HQ-OAR-2014-0128-0464	Comment submitted by Paulena Meyer	06/08/2024
	EPA-HQ-OAR-2014-0128-0465	Comment submitted by David Williams	06/08/2024
	EPA-HQ-OAR-2014-0128-0466	Comment submitted by Bonnie Claggett	06/08/2024
	EPA-HQ-OAR-2014-0128-0467	Comment submitted by Rona Fried	06/08/2024
	EPA-HQ-OAR-2014-0128-0468	Anonymous public comment	06/08/2024
	EPA-HQ-OAR-2014-0128-0469	Comment submitted by John Ulloth	06/09/2024
	EPA-HQ-OAR-2014-0128-0470	Comment submitted by Appalachian Mountain Club et al.	06/14/2024

	EPA-HQ-OAR-2014-0128-0471	Comment submitted by Ron Holman	06/07/2024
	EPA-HQ-OAR-2014-0128-0472	Comment submitted by Center for Biological Diversity (part 1)	06/14/2024
	EPA-HQ-OAR-2014-0128-0473	Comment submitted by Center for Biological Diversity (Part 2)	06/14/2024
	EPA-HQ-OAR-2014-0128-0474	Comment submitted by Center for Biological Diversity (Part 3)	06/14/2024
	EPA-HQ-OAR-2014-0128-0475	Mass Comment Campaign sponsoring organization unknown. Sample attached.	5/24/2024
	EPA-HQ-OAR-2014-0128-0476	Mass Comment Campaign sponsored by Center for Biological Diversity	6/14/2024
	EPA-HQ-OAR-2014-0128-0477	Comment submitted by Marc Fleisher	06/07/2024
	EPA-HQ-OAR-2014-0128-0478	Comment submitted by Brenda Frey	06/07/2024
	EPA-HQ-OAR-2014-0128-0479	Comment submitted by Gene Whitaker	06/07/2024
	EPA-HQ-OAR-2014-0128-0480	Comment submitted by Gordon James	06/08/2024
	EPA-HQ-OAR-2014-0128-0481	Comment submitted by Linda Sikes	06/08/2024
	EPA-HQ-OAR-2014-0128-0482	Comment submitted by Gala Perry	06/08/2024
	EPA-HQ-OAR-2014-0128-0483	Comment submitted by Priscilla Mendoza	06/08/2024
	EPA-HQ-OAR-2014-0128-0484	Comment submitted by Frances Walker	06/08/2024
	EPA-HQ-OAR-2014-0128-0485	Comment submitted by Corinna-Barbara Francis	06/12/2024
	EPA-HQ-OAR-2014-0128-0486	Anonymous public comment	06/13/2024
	EPA-HQ-OAR-2014-0128-0487	Comment submitted by Crystal Fernandez	06/14/2024
	EPA-HQ-OAR-2014-0128-0488	Comment submitted by Bonnie Claggett	06/09/2024
	EPA-HQ-OAR-2014-0128-0489	Comment submitted by Dana Thomart	06/10/2024
	EPA-HQ-OAR-2014-0128-0490	Comment submitted by Debra Patla	06/10/2024
	EPA-HQ-OAR-2014-0128-0491	Anonymous public comment	06/10/2024
	EPA-HQ-OAR-2014-0128-0492	Comment submitted by Maureen Allen	06/10/2024
	EPA-HQ-OAR-2014-0128-0493	Comment submitted by Lisa Lampros	06/10/2024
	EPA-HQ-OAR-2014-0128-0494	Comment submitted by Andrew Ashburn	06/12/2024
	EPA-HQ-OAR-2014-0128-0495	Comment submitted by Corinna-Barbara Francis	06/12/2024
	EPA-HQ-OAR-2014-0128-0496	Comment submitted by National Tribal Air Association (NTAA)	06/24/2024

EPA-HQ-ORD-2013-0620 Docket			
Document Type	Document ID	Title	Date Received to Docket
NOTICES	EPA-HQ-ORD-2013-0620-0001	Notice of Workshop and Call for Information on Integrated Science Assessment for Oxides of Nitrogen and Oxides of Sulfur	08/29/2013
	EPA-HQ-ORD-2013-0620-0002	Meetings: Secondary National Ambient Air Quality Standards for Oxides of Nitrogen and Sulfur; Workshop	02/13/2014
	EPA-HQ-ORD-2013-0620-0003	Workshop To Review Initial Draft Materials for the Nitrogen Oxides (NOX) and Sulfur Oxides (SOX) Integrated Science Assessment (ISA) for Ecological Effects	08/12/2015
	EPA-HQ-ORD-2013-0620-0006	First External Review Draft Integrated Science Assessment for Oxides of Nitrogen, Oxides of Sulfur, and Particulate Matter-Ecological Criteria	03/30/2017
	EPA-HQ-ORD-2013-0620-0013	External Review Draft Integrated Science Assessments: Oxides of Nitrogen, Oxides of Sulfur, and Particulate Matter-Ecological Criteria	06/26/2018
	EPA-HQ-ORD-2013-0620-0022	Final Integrated Science Assessment for Oxides of Nitrogen, Oxides of Sulfur, and Particulate Matter--Ecological Criteria	10/19/2020
SUPPORTING & RELATED MATERIALS	EPA-HQ-ORD-2013-0620-0004	Data Response from Dr. Sherwood to Dr. Lassiter	11/22/2016
	EPA-HQ-ORD-2013-0620-0005	Data Request from Dr. Naess; re: Summary of Monitoring Data	11/22/2016
	EPA-HQ-ORD-2013-0620-0023	EPA-CASAC-20-004 Response	11/06/2023
	EPA-HQ-ORD-2013-0620-0024	EPA-CASAC-17-004 Response 12-18-2017	11/06/2023
	EPA-HQ-ORD-2013-0620-0025	EPA-CASAC-17-004	11/06/2023
	EPA-HQ-ORD-2013-0620-0026	EPA-CASAC-20-004	11/06/2023
	EPA-HQ-ORD-2013-0620-0027	NOxSOx PM ISA - 1st Draft - HERO - Merged - 2-22-17	11/06/2023
	EPA-HQ-ORD-2013-0620-0028	NOXSOXPM-2nderd-Hero-Jun2018	11/06/2023
	EPA-HQ-ORD-2013-0620-0029	NOXSOXPM ISA - Final - September 2020	11/06/2023
PUBLIC SUBMISSIONS	EPA-HQ-ORD-2013-0620-0007	Comment submitted by Robert Chapman, Vice President, Electric Power Research Institute, Inc. (EPRI)	05/23/2017
	EPA-HQ-ORD-2013-0620-0008	Comment submitted by Kurt E. Blase, Counsel, Coarse Particulate Matter Coalition	05/24/2017
	EPA-HQ-ORD-2013-0620-0009	Comment submitted by Cindy Langworthy, Utility Air Regulatory Group (UARG)	05/24/2017
	EPA-HQ-ORD-2013-0620-0010	Anonymous public comment	05/24/2017
	EPA-HQ-ORD-2013-0620-0011	Comment submitted by Georgia Murray, Staff Scientist, Appalachian Mountain Club	05/25/2017
	EPA-HQ-ORD-2013-0620-0012	Comment submitted by Wayne Dupuis, Environmental Program Manager, Fond du Lac Band of Lake Superior Chippewa	05/31/2017
	EPA-HQ-ORD-2013-0620-0014	Anonymous public comment	06/28/2018
	EPA-HQ-ORD-2013-0620-0015	Anonymous public comment	08/06/2018
	EPA-HQ-ORD-2013-0620-0016	Anonymous public comment	08/22/2018
	EPA-HQ-ORD-2013-0620-0017	Comment submitted by Aaron M. Flynn, Hunton Andrews Kurth LLP on behalf of Utility Air Regulatory Group (UARG)	09/04/2018
	EPA-HQ-ORD-2013-0620-0018	Comment submitted by Robert Chapman, Vice President, Energy and Environment, Electric Power Research Institute, Inc. (EPRI)	09/01/2018

	EPA-HQ-ORD-2013-0620-0019	Comment submitted by Ted Steichen, Senior Policy Advisor, American Petroleum Institute (API)	09/04/2018
	EPA-HQ-ORD-2013-0620-0020	Comment submitted by John F. Sheehan, Director of Communications, Adirondack Council	09/04/2018
	EPA-HQ-ORD-2013-0620-0021	Comment submitted by Nathan Donley, Ph.D., Senior Scientist, Environmental Health Program, Center for Biological Diversity	09/04/2018